

Underground Storage Tank  
Closure Assessment

Residence of:  
Mr. Melvin D. Yarboro  
2205 Oak Hill Drive  
Guilford County  
Greensboro, NC

Prepared by:  
G & H Oil Equipment, Inc.  
Greensboro, NC  
William V. Hill

March 24, 1993

### Introduction

On February 24, 1993, G & H Oil Equipment, Inc., excavated and removed one (1) 550 gallon #2 Fuel Oil underground storage tank (UST) at the residence of Mr. Melvin D. Yarboro, 2205 Oak Hill Drive, Greensboro, NC. Mr. Yarboro currently resides at 1072 Tarry Church Road, Star, NC 27356.

The UST closure was being performed as a stipulation to the sale of the property. The UST was out-of-service since the heating system had previously been converted to natural gas.

### Initial Investigation

On February 24, 1993, G & H excavated and removed one (1) 550 gallon #2 Fuel Oil UST. The removed UST was of steel construction, 48" diameter x 6'0" long. The top of the tank was buried under 2' of earth cover placing the tank bottom at 6' from the surface.

The tank was found to have 11" (approximately 75 gallons) of residual product and/or water. Liquid was pumped from the tank by G & H into 55 gallon drums and transported to Four Seasons Industrial Services for disposal.

The removed tank was found with several small holes in the bottom North end. No free product or ground water were encountered in the pit excavation.

The removed tank was transported to Safeway Tank Disposal, Inc., Colfax, NC. A copy of the Receiving Report (figure 1) and Certificate of Disposal (figure 2) are enclosed.

Two (2) soil samples were collected from the undisturbed backfill approximately 2' below the tank bottom at 8' from the surface. Samples were collected in laboratory furnished 4 oz. clear glass sample jars with teflon closures, preserved on ice, and delivered to Burlington Research. Samples were taken by Donnie Maness of G & H Oil Equipment, and a copy of the Chain of Custody (figure 3) is enclosed.

The tank pit excavation was backfilled pending results of soil analysis reports.

### Soil Analysis Report

G & H has received Burlington Research's Report of Analysis No. 93-02-532 dated March 8, 1993. A copy of the report (figure 4) and our sketch of soil sample locations (figure 5) are enclosed.

Soil sample results are as follows:

#### Sample DN1 (93-02-532-01)

Collected at approximately 8' from the surface beneath the North end of the removed tank. Results indicate 89.7 ppm total petroleum hydrocarbons by EPA method 5030 and 103 ppm total petroleum hydrocarbons by EPA method 3550.

#### Sample DS2 (93-02-532-02)

Collected at approximately 8' from the surface beneath the South end of the removed tank. Results indicate 145 ppm total petroleum hydrocarbons by EPA method 5030 and 1,450 ppm total petroleum hydrocarbons by EPA method 3550.

Results of Soil Analysis Reports were telephoned to Ms. Kelly Gage at the Guilford County Department of Emergency Services as a notification of petroleum release. The owner and potential buyer were also advised of results and given recommendations for site remediation.

### Conclusions and Recommendations

G & H has excavated, and removed one (1) 550 gallon #2 Fuel Oil UST at the residence of Mr. Melvin D. Yarboro, 2205 Oak Hill Drive, Greensboro, Guilford County, NC.

Results of Soil Analysis Reports indicate that detectable levels of total petroleum hydrocarbons are in excess of minimum action levels and that a release of petroleum into the soil has occurred.

Ms. Kelly Gage, Guilford County Department of Emergency Services, was notified of soil sample results and the following recommendations were given to Mr. Yarboro.

A Site Sensitivity Evaluation (SSE) should be performed to determine the minimum threshold for soil clean-up at this site. Upon completion of the SSE, soil should be excavated and removed from the tank pit to meet or exceed total petroleum hydrocarbon levels established by the SSE. Additional soil samples should be taken to confirm results and the petroleum contaminated soil disposed of with confirming documents provided to Guilford County.

### Qualifications

Our services have been performed, our findings obtained, and our recommendations prepared in accordance with customary principles and practices in the field of tank closures. No other warranty, expressed or implied, is made as to the options included with this report. Opinions and recommendations presented herein apply to the site conditions existing at the time of our investigation.

G & H OIL EQUIPMENT, INC.

*William V. Hill*

William V. Hill  
March 24, 1993

## Page 1 of 1

RECEIVING REPORT

*C. A. Smith*  
SAFeway TANK DISPOSAL, INC.





Burlington  
Research

• 815 Hurlburt Mill Road  
• Burlington, NC 27215  
• (919) 564-5584  
• Fax (919) 564-5584, Ext. 202

## CHAIN OF CUSTODY RECORD

CLIENT: G + H Oil Equipment, Inc. CONTACT PERSON: Bill Hill  
Facility/Site: Melvin Yarbergo 2205 Oak Hill Dr. Phone Number: (919) 292-5143  
Sampler: (Print) Donald Messers Purchase Order #: 2-27

SAMPLE ID	SAMPLE COLLECTION		SAMPLE TYPE			NO. OF CON. TAINERS SENT	ANALYSES REQUIRED	FOR LAB USE ONLY		
			COMPOSITE	GRAB				SAMPLE INTEGRITY	TEMPERATURE (4°C)	PRESERVATION
				HAND	AUTO					
DN 1 A+ 8'	DATE TIME STARTED 1030	DATE TIME ENDED 2/24/93			✓	1	5030, 3550 (#2 Fuel Oil)			
DS 2 A+ 8'	DATE TIME STARTED 1030	DATE TIME ENDED 2/24/93			✓	1	5030, 3550 (#2 Fuel Oil)			

### FOR CLIENT USE:

Relinquished by: (Signature)  
Donald Messers

Shipped by: (Signature)

Method of Shipment:

Received by: (Signature)

Received by: (Signature)

Date:

2-25-93

Time:

910 AM

Method of Shipment:

Date:

Time:

Figure

### FOR LAB USE ONLY

Received In Lab FROM: (Signature)

Received for Lab BY: (Signature)

Date:

2-25-93

Time:

0910.

Method of Shipment:

Sample Integrity Comment:



Analytical Services • Aquatic Bioassay Testing • Aquatic Toxicity Reduction Evaluations  
AATCC Testing Services • NPDES Testing • Reporting & Data Handling Services  
PMN Aquatic Bioassay Evaluations

Post Office Box 2481 • 615 Huffman Mill Road • (919) 584-5564 • Burlington, NC 27216-2481

March 08, 1993

G and H Oil Equipment, Inc.  
P.O. Box 7446  
Greensboro, NC 27417

Attention: William "Bill" Hill

Enclosed find report(s) for your sample(s) received 02/25/93,  
BRI Work Order # 93-02-532. Please call if you have any  
questions.

Thank you.

Sincerely,

BURLINGTON RESEARCH, INC.

Steven G. Yocklovich  
Vice President, Customer &  
Technical Services





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AATCC Testing Services • NPDES Testing • Reporting & Data Handling Services  
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### ANALYTICAL REPORT

CUSTOMER: G and H Oil Equipment, Inc.  
FACILITY: 4232 High Point Road  
REPORT TO: William "Bill" Hill  
SAMPLE: Melvin Yarboro  
DN-1 at 8' Grab 2/24/93

WORK ORDER #: 93-02-532-01

COLLECTED: 02/24/93  
RECEIVED: 02/25/93  
REPORTED: 03/08/93

PARAMETER	METHOD	STARTED	ANALYZED	RESULT
TPH-I, Soils	EPA 5030/GC	03/01/93	03/01/93	Attached
TPH-II, Soil	EPA 3550/GC	02/26/93	03/05/93	Attached



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**EPA METHOD 5030 WITH CALIFORNIA GC METHOD**  
**TOTAL PETROLEUM HYDROCARBONS - TYPE I, IN SOILS**

**WORK ORDER #: 93-02-532-01**

**TPH: 89.7 mg/kg (ppm)**

**TPH Standard used: Fuel Oil #2**

**% Recovery of Standard: 83**

**% Solids: 73**



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**EPA METHOD 3550 WITH CALIFORNIA GC METHOD**

**TOTAL PETROLEUM HYDROCARBONS - TYPE II  
IN SOILS**

**WORK ORDER #: 93-02-532-01**

**TPH: 103 mg/Kg (ppm)**

**TPH Standard used: #2 Heating Oil**

**% Recovery of Standard: 94**

**% Solids: 73**



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### ANALYTICAL REPORT

CUSTOMER: G and H Oil Equipment, Inc.  
FACILITY: 4232 High Point Road  
REPORT TO: William "Bill" Hill  
SAMPLE: Melvin Yarboro  
DS-2 at 8' Grab 2/24/93

WORK ORDER #: 93-02-532-02

COLLECTED: 02/24/93  
RECEIVED: 02/25/93  
REPORTED: 03/08/93

PARAMETER	METHOD	STARTED	ANALYZED	RESULT
TPH-I, Soils	EPA 5030/GC	03/01/93	03/01/93	Attached
TPH-II, Soil	EPA 3550/GC	02/26/93	03/05/93	Attached



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**EPA METHOD 5030 WITH CALIFORNIA GC METHOD**  
**TOTAL PETROLEUM HYDROCARBONS - TYPE I, IN SOILS**

**WORK ORDER #: 93-02-532-02**

**TPH: 145 mg/kg (ppm)**

**TPH Standard used: Fuel Oil #2**

**% Recovery of Standard: 83**

**% Solids: 75**



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**EPA METHOD 3550 WITH CALIFORNIA GC METHOD**

**TOTAL PETROLEUM HYDROCARBONS - TYPE II  
IN SOILS**

WORK ORDER #: 93-02-532-02

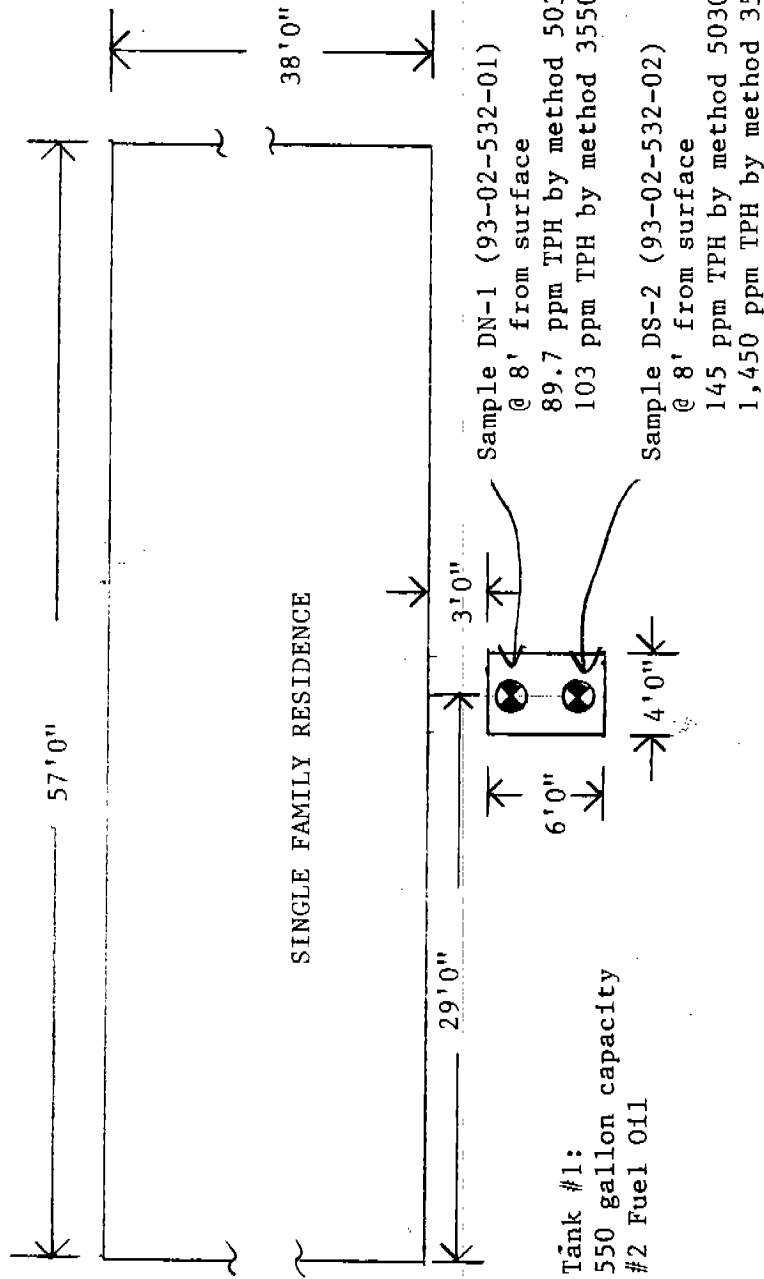
TPH: 1,450 mg/Kg (ppm)

TPH Standard used: #2 Heating Oil

% Recovery of Standard: 94

% Solids: 75

2205 OAK HILL DRIVE



SOIL SAMPLE LOCATIONS:

Residence of Melvin D. Yarboro  
 2205 Oak Hill Drive  
 Guilford County  
 Greensboro, NC

